



## **CHAIN-OF-CUSTODY RECORD**

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180 BLUE RAVINE ROAD, SUITE B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager Auxier & Associates, Inc. / Environ. Management Support, Inc.

**Collected by:** (Print and Sign) BILL ABERNATHY

Company A & A / EMSI Email cgreen@auxier.com  
paulrosasco@emsidenyer.com

**Address** A & A - 9821 Cogdill Rd, Suite 1 — Knoxville — TN — 37932  
EMSI, 7220 W Jefferson Ave, Ste 106, City, Lakewood — State, CO — Zip, 80235

Address 1101-1/220 W. Jefferson Ave, Ste 900 City BROOKWOOD State CO Zip 80233

Phone A & A - (865) 675-3669 EMSI - (303) 940-3426 Fax A & A - (865) 675-3677 EMSI - (303) 940-3422

Radiello130 # Date 3

**Lab I.D.**      **Field Sample I.D. (Location)**      **Can #**      **of Collection**

ENGCWES-A001 8-2014 - b-15

ENGWESAU1 8/1/ND 5/27/15

<b>Project Info:</b>	<b>Turn Around Time:</b>	<i>Lab Use Only</i>
P.O. # _____	<input checked="" type="checkbox"/> Normal	Pressurized by: _____
Project # _____	<input type="checkbox"/> Rush	Date: _____
Project Name _____	<u>specify</u>	Pressurization Gas:
Westlake Landfill		N <sub>2</sub> He

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	Notes:
5 <i>M. H. H.</i>	5/28/15 1320	6 FEDEX 773703713458	5/28/15 1430	7 - 5/3/15 1105 5 - 5/3/16 1135 7 - 5/3/15 1125 8 - 5/3/15 1205 11 - 5/3/15 1145 OVP - 5/3/16 1205
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	
		<i>Brian</i>	5/29/16 0900	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	

Form 1293 rev.11

**Method: Passive SE GC/MS - Full 130**

1505964

Compound	Rpt.Limit(ug)	Rpt Limit (ug/m3 – 30 day exposure)
Ethanol	1.0	0.23
Acetone	0.20	0.06
2-Propanol	0.20	0.09
Methyl tert-butyl ether	0.10	0.04
Hexane	0.10	0.04
Ethyl Acetate	0.40	0.12
2-Butanone (Methyl Ethyl Ketone)	0.10	0.03
Chloroform	0.10	0.03
1,1,1-Trichloroethane	0.10	0.04
Cyclohexane	0.10	0.04
Carbon Tetrachloride	0.10	0.03
Benzene	0.40	0.12
1,2-Dichloroethane	0.10	0.03
Heptane	0.10	0.04
Trichloroethene	0.10	0.03
4-Methyl-2-pentanone	0.20	0.07
Toluene	0.10	0.03
Tetrachloroethene	0.10	0.04
Chlorobenzene	0.10	0.03
Ethyl Benzene	0.10	0.03
m,p-Xylene	0.10	0.03
o-Xylene	0.10	0.04
Styrene	0.10	0.04
Propylbenzene	0.10	0.04
1,4-Dichlorobenzene	0.10	0.05
Naphthalene	0.10	0.09

**Surrogate**

Toluene-d8

**Method Limits**

70-130

A Eurofins Lancaster Laboratories Company

Eurofins Air Toxics, Inc.

180 Blue Ravine Road, Suite B  
Folsom, CA 95630

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6/11/2015  
Ms. Cecilia Greene  
Auxier & Associates, Inc.  
9821 Cogdill Road, Suite 1

Knoxville TN 37932

Project Name: Westlake Landfill  
Project #:  
Workorder #: 1505464

Dear Ms. Cecilia Greene

The following report includes the data for the above referenced project for sample(s) received on 5/29/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Passive S.E. RAD130/SKC are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner  
Project Manager

**A Eurofins Lancaster Laboratories Company**

**WORK ORDER #:** 1505464

## Work Order Summary

<b>CLIENT:</b>	Ms. Cecilia Greene Auxier & Associates, Inc. 9821 Cogdill Road, Suite 1 Knoxville, TN 37932	<b>BILL TO:</b>	Ms. Cecilia Greene Auxier & Associates, Inc. 9821 Cogdill Road, Suite 1 Knoxville, TN 37932
<b>PHONE:</b>	865-675-3669	<b>P.O. #</b>	
<b>FAX:</b>	865-675-3677	<b>PROJECT #</b>	Westlake Landfill
<b>DATE RECEIVED:</b>	05/29/2015	<b>CONTACT:</b>	Kelly Buettner
<b>DATE COMPLETED:</b>	06/11/2015		

<b><u>FRACTION #</u></b>	<b><u>NAME</u></b>	<b><u>TEST</u></b>
01A	ENGWESA001	Passive S.E. RAD130/SKC
02A	ENGWESA005	Passive S.E. RAD130/SKC
03A	ENGWESA007	Passive S.E. RAD130/SKC
04A	ENGWESA008	Passive S.E. RAD130/SKC
05A	ENGWESA011	Passive S.E. RAD130/SKC
06A	Duplicate	Passive S.E. RAD130/SKC
07A	Lab Blank	Passive S.E. RAD130/SKC
08A	LCS	Passive S.E. RAD130/SKC
08AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY:



DATE: 06/11/15

Technical Director

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563  
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE  
Passive SE GC/MS  
Auxier & Associates, Inc.  
Workorder# 1505464**

Six Radiello 130 (Solvent) samples were received on May 29, 2015. The laboratory extracted the charcoal sorbent bed of the passive sampler using carbon disulfide. An aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

#### **Receiving Notes**

There were no receiving discrepancies.

#### **Analytical Notes**

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

To calculate ug/m<sup>3</sup> concentrations in the Lab Blank, a sampling duration of 20488 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

#### **Definition of Data Qualifying Flags**

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

## Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

**Client Sample ID: ENGWESA001****Lab ID#: 1505464-01A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.074	0.17	0.13
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.21	0.13
Carbon Tetrachloride	0.10	0.073	0.35	0.26
Heptane	0.10	0.084	0.26	0.22
Toluene	0.10	0.066	0.65	0.43
Tetrachloroethene	0.10	0.083	0.21	0.18
Ethyl Benzene	0.10	0.072	0.10	0.076
m,p-Xylene	0.10	0.070	0.33	0.23
o-Xylene	0.10	0.075	0.11	0.082

**Client Sample ID: ENGWESA005****Lab ID#: 1505464-02A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.074	0.21	0.15
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.23	0.14
Carbon Tetrachloride	0.10	0.073	0.34	0.25
Heptane	0.10	0.085	0.15	0.13
Toluene	0.10	0.066	0.65	0.43
Ethyl Benzene	0.10	0.072	0.11	0.079
m,p-Xylene	0.10	0.070	0.31	0.22

**Client Sample ID: ENGWESA007****Lab ID#: 1505464-03A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
2-Propanol	0.20	0.19	0.24	0.23
Hexane	0.10	0.075	0.42	0.31
Ethyl Acetate	0.40	0.25	0.48	0.31
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.27	0.17
Carbon Tetrachloride	0.10	0.074	0.38	0.28
Heptane	0.10	0.085	0.18	0.15
Toluene	0.10	0.067	0.86	0.57



Air Toxics

## Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

**Client Sample ID: ENGWESA007****Lab ID#: 1505464-03A**

Ethyl Benzene	0.10	0.073	0.13	0.093
m,p-Xylene	0.10	0.071	0.38	0.27
o-Xylene	0.10	0.076	0.11	0.085

**Client Sample ID: ENGWESA008****Lab ID#: 1505464-04A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.074	0.25	0.19
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.24	0.15
Carbon Tetrachloride	0.10	0.073	0.39	0.28
Heptane	0.10	0.084	0.14	0.12
Toluene	0.10	0.066	0.52	0.34
Ethyl Benzene	0.10	0.072	0.10	0.074
m,p-Xylene	0.10	0.070	0.31	0.22

**Client Sample ID: ENGWESA011****Lab ID#: 1505464-05A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.075	0.30	0.23
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.29	0.18
Carbon Tetrachloride	0.10	0.074	0.34	0.26
Heptane	0.10	0.086	0.14	0.12
Toluene	0.10	0.067	0.48	0.32
m,p-Xylene	0.10	0.071	0.25	0.18

**Client Sample ID: Duplicate****Lab ID#: 1505464-06A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.074	0.29	0.21
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.22	0.14
Carbon Tetrachloride	0.10	0.073	0.36	0.27



Air Toxics

**Summary of Detected Compounds  
VOCS BY PASSIVE SAMPLER - GC/MS**

**Client Sample ID: Duplicate**

**Lab ID#: 1505464-06A**

Heptane	0.10	0.084	0.14	0.11
Toluene	0.10	0.066	0.51	0.34
Ethyl Benzene	0.10	0.072	0.10	0.073
m,p-Xylene	0.10	0.070	0.29	0.20



Air Toxics

Client Sample ID: ENGWESA001

Lab ID#: 1505464-01A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10060508sim</b>	<b>Date of Collection: 5/27/15 4:33:00 PM</b>		
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis: 6/5/15 11:18 AM</b>		
		<b>Date of Extraction: 6/5/15</b>		
<b>Compound</b>	<b>Rpt. Limit (ug)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug)</b>	<b>Amount (ug/m3)</b>
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.075	Not Detected	Not Detected
Hexane	0.10	0.074	0.17	0.13
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.21	0.13
Chloroform	0.10	0.065	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.079	Not Detected	Not Detected
Cyclohexane	0.10	0.090	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.073	0.35	0.26
Benzene	0.40	0.24	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.063	Not Detected	Not Detected
Heptane	0.10	0.084	0.26	0.22
Trichloroethene	0.10	0.071	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.14	Not Detected	Not Detected
Toluene	0.10	0.066	0.65	0.43
Tetrachloroethylene	0.10	0.083	0.21	0.18
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	0.10	0.076
m,p-Xylene	0.10	0.070	0.33	0.23
o-Xylene	0.10	0.075	0.11	0.082
Styrene	0.10	0.080	Not Detected	Not Detected
Propylbenzene	0.10	0.086	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.096	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20488 minutes.

Container Type: Radiello 130 (Solvent)

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Toluene-d8	102	70-130



Air Toxics

Client Sample ID: ENGWESA005

Lab ID#: 1505464-02A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10060509sim</b>	<b>Date of Collection:</b> 5/27/15 3:14:00 PM		
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 6/5/15 11:42 AM		
		<b>Date of Extraction:</b> 6/5/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.075	Not Detected	Not Detected
Hexane	0.10	0.074	0.21	0.15
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.23	0.14
Chloroform	0.10	0.065	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.079	Not Detected	Not Detected
Cyclohexane	0.10	0.091	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.073	0.34	0.25
Benzene	0.40	0.24	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.085	0.15	0.13
Trichloroethene	0.10	0.071	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.066	0.65	0.43
Tetrachloroethylene	0.10	0.083	Not Detected	Not Detected
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	0.11	0.079
m,p-Xylene	0.10	0.070	0.31	0.22
o-Xylene	0.10	0.075	Not Detected	Not Detected
Styrene	0.10	0.080	Not Detected	Not Detected
Propylbenzene	0.10	0.086	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.096	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20379 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130



Air Toxics

Client Sample ID: ENGWESA007

Lab ID#: 1505464-03A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10060510sim</b>	<b>Date of Collection:</b> 5/27/15 12:32:00 PM		
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 6/5/15 12:06 PM		
		<b>Date of Extraction:</b> 6/5/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	0.24	0.23
Methyl tert-butyl ether	0.10	0.076	Not Detected	Not Detected
Hexane	0.10	0.075	0.42	0.31
Ethyl Acetate	0.40	0.25	0.48	0.31
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.27	0.17
Chloroform	0.10	0.066	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.080	Not Detected	Not Detected
Cyclohexane	0.10	0.092	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.074	0.38	0.28
Benzene	0.40	0.25	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.085	0.18	0.15
Trichloroethene	0.10	0.072	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.067	0.86	0.57
Tetrachloroethylene	0.10	0.084	Not Detected	Not Detected
Chlorobenzene	0.10	0.073	Not Detected	Not Detected
Ethyl Benzene	0.10	0.073	0.13	0.093
m,p-Xylene	0.10	0.071	0.38	0.27
o-Xylene	0.10	0.076	0.11	0.085
Styrene	0.10	0.081	Not Detected	Not Detected
Propylbenzene	0.10	0.087	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.097	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20227 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130



Air Toxics

Client Sample ID: ENGWESA008

Lab ID#: 1505464-04A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10060511sim</b>	<b>Date of Collection:</b> 5/27/15 4:00:00 PM		
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 6/5/15 12:29 PM		
		<b>Date of Extraction:</b> 6/5/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.075	Not Detected	Not Detected
Hexane	0.10	0.074	0.25	0.19
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.24	0.15
Chloroform	0.10	0.065	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.079	Not Detected	Not Detected
Cyclohexane	0.10	0.091	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.073	0.39	0.28
Benzene	0.40	0.24	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.084	0.14	0.12
Trichloroethene	0.10	0.071	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.066	0.52	0.34
Tetrachloroethylene	0.10	0.083	Not Detected	Not Detected
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	0.10	0.074
m,p-Xylene	0.10	0.070	0.31	0.22
o-Xylene	0.10	0.075	Not Detected	Not Detected
Styrene	0.10	0.080	Not Detected	Not Detected
Propylbenzene	0.10	0.086	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.096	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20395 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130



Air Toxics

Client Sample ID: ENGWESA011

Lab ID#: 1505464-05A

**VOCS BY PASSIVE SAMPLER - GC/MS**

<b>File Name:</b>	<b>10060512sim</b>	<b>Date of Collection:</b>	<b>5/27/15 10:30:00 AM</b>	
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b>	<b>6/5/15 12:53 PM</b>	
		<b>Date of Extraction:</b>	<b>6/5/15</b>	
<b>Compound</b>	<b>Rpt. Limit (ug)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug)</b>	<b>Amount (ug/m3)</b>
Ethanol	1.0	0.49	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.076	Not Detected	Not Detected
Hexane	0.10	0.075	0.30	0.23
Ethyl Acetate	0.40	0.26	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.29	0.18
Chloroform	0.10	0.066	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.080	Not Detected	Not Detected
Cyclohexane	0.10	0.092	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.074	0.34	0.26
Benzene	0.40	0.25	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.065	Not Detected	Not Detected
Heptane	0.10	0.086	0.14	0.12
Trichloroethene	0.10	0.072	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.067	0.48	0.32
Tetrachloroethylene	0.10	0.084	Not Detected	Not Detected
Chlorobenzene	0.10	0.073	Not Detected	Not Detected
Ethyl Benzene	0.10	0.073	Not Detected	Not Detected
m,p-Xylene	0.10	0.071	0.25	0.18
o-Xylene	0.10	0.076	Not Detected	Not Detected
Styrene	0.10	0.082	Not Detected	Not Detected
Propylbenzene	0.10	0.087	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.098	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20085 minutes.

Container Type: Radiello 130 (Solvent)

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Toluene-d8	102	70-130



Air Toxics

## Client Sample ID: Duplicate

Lab ID#: 1505464-06A

## VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10060513sim	Date of Collection:	5/27/15 4:00:00 PM	
Dil. Factor:	1.00	Date of Analysis:	6/5/15 01:17 PM	
		Date of Extraction:	6/5/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.075	Not Detected	Not Detected
Hexane	0.10	0.074	0.29	0.21
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.22	0.14
Chloroform	0.10	0.065	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.079	Not Detected	Not Detected
Cyclohexane	0.10	0.091	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.073	0.36	0.27
Benzene	0.40	0.24	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.084	0.14	0.11
Trichloroethene	0.10	0.071	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.066	0.51	0.34
Tetrachloroethylene	0.10	0.083	Not Detected	Not Detected
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	0.10	0.073
m,p-Xylene	0.10	0.070	0.29	0.20
o-Xylene	0.10	0.075	Not Detected	Not Detected
Styrene	0.10	0.080	Not Detected	Not Detected
Propylbenzene	0.10	0.086	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.096	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20395 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130



Air Toxics

## Client Sample ID: Lab Blank

Lab ID#: 1505464-07A

## VOCS BY PASSIVE SAMPLER - GC/MS

<b>File Name:</b>	<b>10060506sim</b>	<b>Date of Collection: NA</b>		
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis: 6/5/15 10:31 AM</b>		
		<b>Date of Extraction: 6/5/15</b>		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
2-Propanol	0.20	0.19	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.075	Not Detected	Not Detected
Hexane	0.10	0.074	Not Detected	Not Detected
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	Not Detected	Not Detected
Chloroform	0.10	0.065	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.079	Not Detected	Not Detected
Cyclohexane	0.10	0.090	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.073	Not Detected	Not Detected
Benzene	0.40	0.24	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.063	Not Detected	Not Detected
Heptane	0.10	0.084	Not Detected	Not Detected
Trichloroethene	0.10	0.071	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.14	Not Detected	Not Detected
Toluene	0.10	0.066	Not Detected	Not Detected
Tetrachloroethylene	0.10	0.083	Not Detected	Not Detected
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	Not Detected	Not Detected
m,p-Xylene	0.10	0.070	Not Detected	Not Detected
o-Xylene	0.10	0.075	Not Detected	Not Detected
Styrene	0.10	0.080	Not Detected	Not Detected
Propylbenzene	0.10	0.086	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.096	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20488 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1505464-08A

**VOCS BY PASSIVE SAMPLER - GC/MS**

File Name:	10060504sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/5/15 09:42 AM
		Date of Extraction: 6/5/15

Compound	%Recovery	Method Limits
Ethanol	59	50-130
Acetone	88	70-130
2-Propanol	78	50-130
Methyl tert-butyl ether	101	70-130
Hexane	116	70-130
Ethyl Acetate	90	70-130
2-Butanone (Methyl Ethyl Ketone)	88	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	90	70-130
Cyclohexane	91	70-130
Carbon Tetrachloride	97	70-130
Benzene	94	70-130
1,2-Dichloroethane	93	70-130
Heptane	95	70-130
Trichloroethene	90	70-130
4-Methyl-2-pentanone	96	70-130
Toluene	89	70-130
Tetrachloroethylene	92	70-130
Chlorobenzene	84	70-130
Ethyl Benzene	93	70-130
m,p-Xylene	90	70-130
o-Xylene	81	70-130
Styrene	56	20-100
Propylbenzene	91	70-130
1,4-Dichlorobenzene	78	50-110
Naphthalene	10	5-80

**Container Type: Radiello 130 (Solvent)**

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1505464-08AA

**VOCS BY PASSIVE SAMPLER - GC/MS**

File Name:	10060505sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/5/15 10:06 AM
		Date of Extraction: 6/5/15

Compound	%Recovery	Method Limits
Ethanol	52	50-130
Acetone	80	70-130
2-Propanol	69	50-130
Methyl tert-butyl ether	83	70-130
Hexane	105	70-130
Ethyl Acetate	84	70-130
2-Butanone (Methyl Ethyl Ketone)	82	70-130
Chloroform	82	70-130
1,1,1-Trichloroethane	93	70-130
Cyclohexane	99	70-130
Carbon Tetrachloride	89	70-130
Benzene	82	70-130
1,2-Dichloroethane	83	70-130
Heptane	86	70-130
Trichloroethene	90	70-130
4-Methyl-2-pentanone	95	70-130
Toluene	89	70-130
Tetrachloroethylene	92	70-130
Chlorobenzene	85	70-130
Ethyl Benzene	94	70-130
m,p-Xylene	92	70-130
o-Xylene	84	70-130
Styrene	58	20-100
Propylbenzene	94	70-130
1,4-Dichlorobenzene	80	50-110
Naphthalene	11	5-80

**Container Type: Radiello 130 (Solvent)**

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130